

THE TECH

VOL. XXXIII. NO. 112.

BOSTON, MASS., SATURDAY, JANUARY 3, 1914.

PRICE TWO CENTS

LARGE ATTENDANCE AT 1916 CLASS DINNER

Record-Breaking Number Present—
Cheers For Malcolm Kemp,
Class Baby.

The Sophomore class dinner, held last evening, proved to be a successful one, as far as numbers and enthusiasm went. In announcing the count of those present, "147 1-2," President Loomis said that it was the largest class dinner, exclusive of the first-year dinners, ever held at the Institute. The half person counted was Malcolm Kemp, who was present and who appeared to enjoy the proceedings immensely.

The first thing on the program was a cheer for the "Class Baby," which was given with a will. Then the men sat down, and were surprised to find a carnation and a neat menu card, both in appropriate colors, at each place. The menu gave the names of the speakers, with a poetical quotation indicative of the character of each. The dinner was of a different kind than the usual class banquet, one of the most prominent variations being the 1916 punch. In the course of the dinner a flash-light picture was taken, which was finished and handed around for inspection before the gathering was broke up.

The President started the speaking by giving a review of what the class has done in athletics this year, and suggesting some ideas for the consideration of the students. He spoke of the success of 1916 in Field Day and basketball and called for more to join the cheering section at the next basketball game. He also described the system which is being applied in handling the class funds, whereby the money is spent for the benefit of the members instead of being uselessly saved up. The proposed new uniform class constitution was suggested to the attention of the men, since it will come up for consideration after mid-year. Criticisms in the columns of THE TECH were invited from all the students.

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CHINESE WILL MEET

Harvard Man To Speak On National Individuality.

Mr. M. L. Schermerhorn of Harvard University has consented to address the Chinese Students' Club at its meeting this afternoon. Mr. Schermerhorn has had the advantage of thirty-five years of constant study and research in the fields of Chinese history and literature, and his address is expected by the officers to prove of exceptional interest and value. He will speak on "Preservation of National Individuality," considering the question from the standpoints of Chinese history, of Confucianism, and of the new Chinese Republic.

The meeting will be held at three o'clock sharp in Room A of the Union. In view of the fact that Mr. Schermerhorn's talk is expected to be of unusual interest, the Club extends an invitation to outsiders, and will be glad to see a large number present.

CHESS TEAM PLAYS ALUMNI TONIGHT

Team Plays Harvard On January 17
—Both Meets Will Be Held In
The Union.

There is probably very seldom an opportunity for seeing as interesting a Chess tournament as will take place between the Chess Club and the Alumni tonight at 7.30 in the Union. For everyone who is interested in chess, whether they belong to the Chess Club or not, there seems to be every indication that they will be able to see a very exciting contest.

The teams for both sides have been announced as follows: Alumni—Norwood, Merrill, Hoyt, Whithead, Grant, and Gustin; Chess Club—Woodbridge, Saladrigas, Kenigsburg, Deane, Blank, and Paris. These men are all expected to be on hand at 7.00 o'clock.

On January 17 the Technology team will meet their old rival, Harvard, in another match. In the last match Harvard barely won by a score of 41-2 to 31-2, but, this time the Technology Team feels confident of a victory. The tournament will be held in the Union at eight o'clock. There will be eight boards. The men who will play will be announced later.

At the meeting of the Executive Committee a ranking of the players and a list of the standing of the ten best players will be posted every Monday in the Union. The following conditions for challenging were also adopted. A man can challenge only a player of the next better standing, with the exception that any man may challenge the last player. Challengers should furthermore confer with their opponent and make necessary arrangements to prevent conflicts. Also the reports of the results must be left with Secretary Woodbridge not later than Saturday afternoon of that week in which the game was played. This plan was adopted with the hope of increasing the interest in chess and also to get a better standing of the Club.

TECH ALUMNUS DEAD

Mr. George Herrick Billings, president of the Compressed Steel Shafting Company and one of the best known iron metallurgists in New England died Wednesday at his home in this city as the result of a paralytic stroke sustained a week ago last Sunday.

Mr. Billings was born at East Taunton, Mass., Feb. 8, 1845, and was educated in the public schools at Pittsburg, Penn., and at the Massachusetts Institute of Technology. His entire life was devoted to the manufacture of steel, invention of steel machinery, and processes for compressing the metal. He made a number of notable inventions and wrote a number of valuable scientific treatises.

MUSICAL CLUBS PICTURE

Photographs of the combined Glee, Mandolin and Banjo Clubs will be taken at one o'clock at Notman's, 5 Park Street.

TECH WRESTLES AT EAST WEYMOUTH TONIGHT

Meets Clapp Memorial Association—
Tech Enters A Well Balanced Team.

Tonight the Tech Wrestling Team meets the Davis Bates Clapp Memorial Association at East Weymouth. When Manager Smythe-Martin was recently interviewed he said that he had no doubt whatever but what his team would win a majority of the bouts, for under excellent coaching during the past week the men had shown up remarkably well. Means will be unable to compete on account of a fractured ankle. The Manager also stated that the tickets for the Brown meet were going fast, more than two hundred having been sold already.

The team will leave on the 6.25 train from the South Station. Getting off at Braintree they will take the electric cars to Central Square, East Weymouth.

There will be eleven bouts. The men representing Tech are as follows:

125-pound class—Loo.
135-pound class—Smythe-Martin.

Durkee, Rounds, and Capt. Kelly.

145-pound class—Treat and Morse.

158-pound class—Walter and Goodell.

Heavy-weight class—Leslie and Crowell.

The men representing the Clapp Assn. are:

125-pound class—M. Zeoli.

135-pound class—G. Ovagian, F. Zeoli, Deldonno, and Ahlstedt.

150-pound special class—F. Drinkwater and J. George.

158-pound class—H. Siroon and G. Price.

Heavy-weight class—B. Warren.

Captain Kelly says that the two Zeoli brothers and B. Warren are exceptionally good men, so that some mighty close matches ought to be witnessed.

Dr. W. F. Provan, instructor of dentistry at Harvard College, and former middle-weight champion of New England, will referee the matches.

WIRELESS SOCIETY

Next Wednesday afternoon at 4.15 o'clock the Wireless Society will hold a meeting in 11 Engineering B. This will be a very important meeting, for the future policy of the society will be discussed. All men in the Institute who are at all interested in wireless are cordially invited to attend.

PROGRESSIVE CLUB

An important meeting of the Executive of the Progressive Club will be held in the Union on Tuesday at 1.30. Business relative to the past and present finances of the Club will be taken up.

1916 CLASS PIPES

The sale of the '16 Class Pipes will be continued in the Union Monday and Tuesday of next week from 1 to 2 and 4 to 6. Positively no orders for pipes will be taken after that date. All are urged to hurry their orders.

PROF. MOORE TALKS TO CHEMICAL SOCIETY

Delivers Interesting Lecture Upon Recent Trip To Frozen North.

Last evening in the Union, Professor Moore, the head of the Organic Chemistry Department of the Institute, delivered before an appreciative audience, composed chiefly of members of the Chemical Society, a very interesting and instructive illustrated lecture on his recent trip to Iceland and Spitzbergen.

He left Bologne July 5 on the Grosser Kurfest. The company on board proved to be very pleasant, with the prevailing atmosphere German. Five representatives of the Company helped to enliven the trip when at sea by arranging various entertainments and other means of enjoyment.

The first view of Iceland revealed its mountainous and exceedingly barren character. The island is about the size of the State of Pennsylvania, and is of volcanic origin. Mt. Hekla is the principal peak, and has volcanic tendencies, erupting at about 75-year intervals. A population of 85,000 people obtain a living from the exploitation of the valuable fisheries off the coast. They support fourteen newspapers, which illustrates the high degree of civilization which these supposed barbarians have attained. From the chemist's point of view Iceland is most interesting because of the deposits of mineral known as Iceland Spar which are to be found there. Most of this compound, which is of such value in the manufacture of optical instruments, due to its clearness, comes from a small quarry which, according to Professor Moore, is only a few yards square.

The steamer arrived in Reikiavik, the capital of the island, during the night, and the next day arrangements were made for a shore excursion. The city proved to be a rather desolate fishing town of about 12,000 inhabitants.

The next visit was to a waterfall some distance from the city. As a means of locomotion the company used the ship's boats in conjunction with a number of small but strong ponies. As there are scarcely any roads outside the city, the way proved rather rough, and when the object of their expedition, a small waterfall, came into view, the party

(Continued on page 2)

WEATHER

For Boston and vicinity: Snow and warmer; increasing easterly winds.

CALENDAR

Saturday, January 3, 1914.

1.30—Musical Clubs Picture.
8.00—Wrestling Meet at East Weymouth.

Monday, January 5, 1914.

1.00 and 4.00 P. M.—Meeting of Candidates for Assistant Manager of Track—Track office, Union.

THE TECH

Entered as second-class matter, Sept. 16, 1911, at the post office at Boston, Mass., under the act of Congress of March 3, 1879.

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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Subscriptions, \$2.00 per year, in advance. Single copies, 2 cents.
Subscriptions within the Boston Post-District, and outside of the United States, must be accompanied by postage at the rate of one cent a copy.

SATURDAY, JANUARY 3, 1914.

In Charge of This Issue

Editor—B. N. Stinets '16.
Associate—A. E. Keating '17.

A Bird's-Eye View

With examinations less than three weeks away, it is time each one of us started to round out his studies with a view to their consummation at the end of the term. Ordinarily, a student's perspective in viewing his studies is limited to his day's work; this is not undesirable, for the only way to succeed here is to do "a day's work in a day"; but it does often cause the sacrifice of general preparation in the course, to immediate though less important work. Before the end is too close, therefore, each man should take a general survey of his courses, ascertain his standing from his own records or those of the instructor, take a comprehensive bird's-eye view of the whole, and arrange to supplement his weak points with the idea, not only of passing the exam, but of getting "his money's worth" out of the course.

T. C. A. ADVANCE

The Right Reverend William Lawrence, D. D., Bishop of Massachusetts speaks on "Reserve Power."

The Bishop is one of the leaders of the Episcopal Church in this country and one of the best known churchmen. This is the last meeting of this term.

Prof. E. Doolittle of the University of Pennsylvania recently prophesied that the world will exist fifteen million years longer.

COLLEGE NEWS

There are fourteen fewer medical schools in the United States than there were a year ago; 1200 fewer persons studying medicine in 1913 than in 1912, and there was a decrease of 500 in the number of medical graduates, according to figures compiled by the United States Bureau of Education.

The reduction in the number of medical schools is part of a steady movement for improved medical education which has been going on for the last eight or nine years. The American Medical Association, the various state medical societies and other agencies have aroused public opinion to such an extent that seventy-nine medical colleges have either merged with other institutions or ceased to exist, and the standard of medical training has been considerably raised.

Of the 101 medical schools now listed at the bureau, fifty-three are requiring one or more years of college work as a prerequisite to entering upon the study of medicine. State examining boards of North Dakota, Iowa, Minnesota, Colorado, Indiana, South Dakota and Kentucky have introduced regulations, most of which are to be made effective within a year or two, providing that every applicant for a license to practice medicine shall have studied two years in college, after a four years' high school course, before even beginning a medical training. A similar requirement covering one year of college work will soon be enforced by the state boards of Connecticut, Kansas, Utah, Vermont, Pennsylvania, and California.

The Junior Prom Committee at the University of Illinois bought over four hundred pounds of candy for their dance. This made over 10,000 pieces and left more than twenty pieces for each individual.

The authorities of the University of Illinois have ordered an equipment for a complete printing plant. The plant will be owned and conducted by the University and will be used to print material for the college. This includes the University Register, the Alumni Quarterly, the Illinois Magazine, the Illinois Agriculturist, the Students' Directory, and The Daily Illini.

Brown University has received over one hundred thousand dollars for the construction of a Biological building to be known as the Arnold Biological Laboratory.

CHEMICAL SOCIETY TALK

(Continued from page 1)

felt poorly repaid for its exertions by the desolate and barren view presented, owing to the lack of vegetation on the island.

On the way to Spitzbergen, the crossing of the Arctic Circle was celebrated by a visit from Neptune, the god of the seas. Appropriate ceremonies were enacted to the enjoyment of the travelers, and at the close of the festivities each person was presented with a certificate of baptism by the great god. Professor Moore read his copy to the Society.

Spitzbergen showed itself of an even more barren and mountainous character than Iceland. It is in area 28,900 square miles, and has little or no population, about the only inhabitants being the members of two scientific expeditions stationed there. An interesting fact is that the members of these expeditions, although

SENIOR PLANT TEST FINISHED THIS MORNING

Westinghouse-Parsons Turbine Under Constant Observation For Past Four Days.

During the past four days a plant test has been carried on by the members of Courses VI, X and XIV. The test is being made on the boiler plant, superheater, and the Westinghouse-Parsons Turbine. Flue gas tests are also being made.

The Westinghouse-Parsons Turbine is connected with an alternating current generator, and the object of the test is to determine the efficiency with which the machine is operated and to ascertain the way in which power is lost as well as the extent of these losses. Indicator and pressure tests are made frequently, the flue gases analyzed, engine and condenser test made and ammeter, wattmeter, and counter readings taken. After the test is over the men who participated in it are to report upon it, making various observations and calculations.

The men are working in eight-hour shifts, and the test is carried on constantly. Various stations have been made, the men on each one having charge of one and only one phase of the work. Each man is on one station for the entire period of the test and works one shift a day. The test closed at 8:00 A. M. today.

thus marooned, daily receive the time signal by wireless from the Eiffel Tower in Paris.

Anchorage was obtained in Magdalena Bay. A visit was made to a curious place known as Burial Island, where those who have had the misfortune to die on the islands have been laid out in open coffins exposed to the air, as the ground is so hard that it is not possible to inter the dead. Professor Moore obtained a photograph of one of the skeletons thus exposed, and it was thrown on the screen. Besides this, visits were also made to some of the numerous glaciers which abound in that region. The relics of the Wellman and Andre polar expeditions were also viewed with much interest.

Return was made by way of Norway, and the Professor was fortunate enough to see the German Emperor on one of his visits to Norway and to hear him speak at the dedication of a colossal memorial monument. The ship finally docked in Bremen.

A vote of thanks was then passed by the Society, and a short business meeting followed, in which it was proposed to choose a pin for the association, and to change the design of the shingles. These questions will be acted upon at a later date.

Penn has received her third Rhodes Scholarship. The other two were awarded to members of the Classes of 1904 and 1908.

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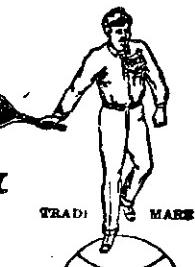
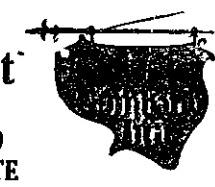
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"LA BOHEME" TO BE GIVEN MONDAY NIGHT

Tetrazzini To Sing In Title Role Of "Lucia" For Saturday Matinee.

The Boston Opera Company will start its seventh week next Monday. The repertoire contains no new operas but includes several of the most popular ones with very good casts.

The week will open with a repetition of Puccini's "La Boheme," on Monday, January 5th. The cast will be the same as at the previous performance, including Maggie Teyte as Mimi, Giovanni Martinelli as Rodolfo, and Henry Dangas as Marcello. Mr. Moranconi will again conduct this popular lyric drama of the Bohemian student life of Paris.

On Wednesday night, Saint-Saëns' "Samson et Dalila" will be given its third hearing of the season, with Margarita D'Alvarez and Edoardo Ferrari-Fontana in the title roles, and Henry Dangas, Jose Mardones and Paolo Ludikar also in the cast. Both of the former performances were great personal triumphs for Mme. D'Alvarez and Mr. Ferrari-Fontana; and local audiences are again given an opportunity to hear these incomparable artists in roles quite worthy of them. Mr. Andre-Caplet will direct.

The Friday night offering will be "The Jewels of the Madonna," an opera that proved so popular last year that it had to be given seven times. Certainly, few modern works equal it in brilliant, melodiousness, and swiftness of dramatic action, which insure its continuance as a favorite. The cast will include Mr. Ferrari-Fontana as Genarro, Mme. Edvina as Malibella, Mme. D'Alvarez as Carmelo, and Vanni Marcoux, who will reappear in the role of Raffaele. The rest of the long cast, which includes practically the entire Italian section of the company, will be the same as before. Mr. Moranconi will conduct.

On Saturday afternoon Mme. Tetrazzini, whose popularity seems even greater this year than before, will reappear in her familiar but always greatly admired role of Lucia. The supporting cast will be the same as at the previous performance, including MM. Fornari, Tanlongo and Mardones. Mr. Moranconi will direct.

The Saturday evening performance will be "Faust" with a new cast. Mme. Margherita Beriza, the new soprano from the Opera Comique in Paris, will sing Marguerite; Leon Lafitte will be the Faust, Taddeo Wronski the Mephistopheles, and MM. Grand and Everett and Mmes. Swartz-Morse and Leveroni will be cast in the other parts. The conductor will be Edouard Tournon, who won such high praise by his conducting at the former presentations of the Gounod opera.

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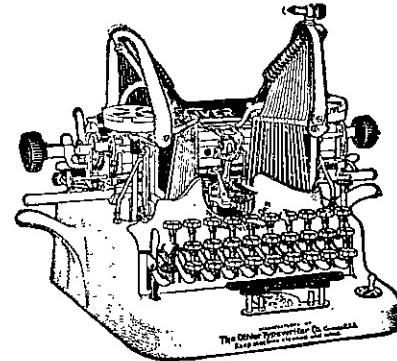
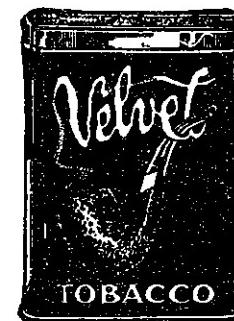
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1916 CLASS DINNER

(Continued from page 1)

Dr. Joseph Lipka, the first speaker on the program, treated the subject of observation in engineering. He described the difference between the student's work and that of the graduate. The student may work hard at his studies, but his work is all laid out for him, and he is constantly employed in assimilating knowledge which is prepared for him by some one else. The engineer in real life must be constantly working on his own methods and discovering his own ways of doing things. He must also compete with others who are doing the same things, and are trying to do them better.

Observation, according to Dr. Lipka, is a faculty which must be cultivated by students who wish to succeed in life. The observation of all things, even those apparently trivial, is of great importance in engineering and science. As an illustration of the value of observation, he cited the story of Newton's being led to the discovery of gravitation by observing the fall of an apple.

He also spoke of the need of the Institute for all-around men. College men, he said, are divided into athletes, grinds and "good fellows." These classes overlap to some extent, but not as much as they should. Men who combine the three classes are the best, and he said he felt sure that Malcolm Kent, of the class of 1934, would be an athlete and good fellow, as well as a student.

Professor Wickenden, the next man on the program, made an appeal for the human side of Tech life. He expressed the opinion that the most important part of a college education is "not taught, but caught" from other men. There is danger of students and faculty remaining apart, whereby both suffer from lack of fellowship. The faculty are more open to this danger than the undergraduates, and they are too liable to live in a world of integral signs and chemical equations, a world of ideas instead of people.

The men were urged to rub elbows with their fellow-students as well as with their instructors. At the Institute there are men from every part of the world, men who have had all kinds of experiences, and Professor Wickenden said that probably nowhere else would a man get another such opportunity for contact with so many different kinds of people. The engineering problems of the present day are largely problems in human nature, and it is well worth while for the Tech man to take every opportunity of learning his fellows.

In conclusion, he congratulated the Sophomore Class on its showing at the banquet, and said that the good attendance showed a desire for fellowship and the human side of life.

Mr. David Carb started his talk by saying that he had intended to give a very clever talk, and give the men the full benefit of his wit. The reference in THE TECH to his reputation for humor scared him, however, and he felt the responsibility imposed on him was too great.

His subject, "On Finality," puzzled the men at first, but they soon found that it was not at all humorous. He first characterized this time as one in which the old authorities are breaking down, and no new ones have yet appeared. Men do not now accept other people's say-so in any matter, whether of religion, politics or science. Authorities which were once supreme are no longer power-

E. E. SOCIETY GOES TO FORE RIVER YARD

Large Shipbuilding Plant Inspected Yesterday Afternoon.

About forty men, under the auspices of the E. E. Society, made a trip yesterday afternoon to the Fore River Ship Yards in Quincy. The Fore River Co. is of special interest because it handles a great number of the government's battleships, submarines, torpedo boats and cruisers. The company employs about 4200 men and does about \$15,000,000 worth of business in a year, while its yards occupy an area of more than 100 acres.

At the present time there are under the process of construction two battleships. One is nearly finished, the guns, towers and turrets being completed. It is said to be one of the largest battleships in existence, its armor plate being 13 inches thick. The other ship is not yet ready for launching. As soon as its plates are riveted together so as to get the hull in floating condition it will be launched, so that the rest of the work can be completed on the water. A torpedo boat tender and a submarine are also under the process of construction.

Besides the government ships the Fore River Co. builds commercial ships and makes all kinds of repairs. With the exception of the armor plates and the guns, the various parts are manipulated and worked into shape in their own machine shops. While in commercial shipbuilding the company designs the ships and uses nothing but their own material in construction.

University of Maine students must no longer indulge in the festive tango dance at any affair held under the auspices of the university according to a decision just announced by a committee of the faculty appointed for investigating the steps. All other modern rags are also prohibited, and staidness will be a characteristic of the college affairs from now on.—Bowdoin Orient.

Princeton will dedicate her new boathouse on Carnegie Lake in the early spring.

FACULTY NOTICES

The problem books for the Physics Heat Course may be obtained in the basement of the Walker Building.

The Political Economy Exercises will not be given between December 29th and January 3d, inclusive.

ful. Each man makes his own conception of God, without regard to the churches. The Constitution and the Supreme Court are not respected as they once were. Nothing is final. The only fixed thing is change. Even human nature is changing constantly, by the process of evolution.

Mr. Carb said the lesson which this teaches the engineer is that of leadership. The successful engineer must adapt himself to the conditions of his time. At present the only real authority is that of personality. A man is not powerful because he holds a certain position, but because of his own personality. For this reason men must become leaders if they expect to be powers in modern life.

As a conclusion to the banquet, Loomis expressed the thanks of all to the dinner committee, and led a spirited "M. I. T." with three "Committees."

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